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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/526,974	10/03/2005	Huib Blokland	Vereenigde P62US	7000	
Varnum Riddering Schmidt & Howlett Bridgewater Place			EXAMINER		
			VERBITSKY, C	GAIL KAPLAN	
Post Office Box Grand Rapids.	x 352 MI 49501-0352	,	ART UNIT PAPER NUMBER		
			2855		
			MAIL DATE	DELIVERY MODE	
	•		10/19/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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Office Action Summan	10/526,974	BLOKLAND, HUIB			
Office Action Summary	Examiner	Art Unit			
	Gail Verbitsky	2859 2855			
The MAILING DATE of this communication ap Period for Reply	ppears on the cover sheet	t with the correspondence address			
A SHORTENED STATUTORY PERIOD FOR REP WHICHEVER IS LONGER, FROM THE MAILING I Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory perio Failure to reply within the set or extended period for reply will, by statu. Any reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMU 1.136(a). In no event, however, man of will apply and will expire SIX (6) No ute, cause the application to become	NICATION. y a reply be timely filed MONTHS from the mailing date of this communic e ABANDONED (35 U.S.C. § 133).	•		
Status					
1) Responsive to communication(s) filed on 26	July 2007.				
2a)⊠ This action is FINAL . 2b)☐ Th					
3) Since this application is in condition for allow	ance except for formal m	atters, prosecution as to the meri	ts is		
closed in accordance with the practice under	r Ex parte Quayle, 1935 (C.D. 11, 453 O.G. 213.			
Disposition of Claims					
4) Claim(s) 1-10 is/are pending in the application	on.				
4a) Of the above claim(s) is/are withdr	rawn from consideration.				
5) Claim(s) is/are allowed.		·			
6)⊠ Claim(s) <u>1,8 and 10</u> is/are rejected.					
7) Claim(s) 2-7 and 9 is/are objected to.	Var alastian requirement				
8) Claim(s) are subject to restriction and	/or election requirement.				
Application Papers	,				
9) The specification is objected to by the Examin					
10) The drawing(s) filed on is/are: a) a			•		
Applicant may not request that any objection to the Replacement drawing sheet(s) including the corre			21(d)		
11) The oath or declaration is objected to by the					
Priority under 35 U.S.C. § 119			•		
12)⊠ Acknowledgment is made of a claim for foreig	an priority under 35 U.S.(C. § 119(a)-(d) or (f).			
a)⊠ All b)□ Some * c)□ None of:		3 (. , (. , (. , .			
1. Certified copies of the priority docume	ents have been received.				
2. Certified copies of the priority docume	ents have been received i	n Application No			
Copies of the certified copies of the pr	*	een received in this National Stage	9		
application from the International Bure	, , , , , , , , , , , , , , , , , , , ,				
* See the attached detailed Office action for a li	st of the certified copies	not received.			
			•		
Attachment(s)					
1) Notice of References Cited (PTO-892)	4) Intervi	ew Summary (PTO-413)			
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper	No(s)/Mail Date of Informal Patent Application			
3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date <u>07/26/2007</u> .	5) Notice 6) Other:				

Office Action Summary

Application/Control Number: 10/526,974 Page 2

Art Unit: 2859

DETAILED ACTION

Claim Objections

1. Claim 2 is objected: perhaps applicant should replace "fo" in line 1 with -of--.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 1, 8 are finally rejected under 35 U.S.C. 102(b) as being anticipated by Schawe et al (U.S. 6170984) [hereinafter Schawe].

Schawe discloses a device/ method for determining a sample/ substance thermal property (phase transition), the device comprising a heat flow (to/ from the substance) determining (col. 5, line 57) and thus, providing a first measuring signal by measuring/ obtaining the heat flow, generating temperature signal phase shifted relative to the heat flow mad measuring/ obtaining said temperature (phase shifted), determining difference between the first signal and the temperature (phase shifted) signal and determining a phase transition temperature based on said difference/ comparison ((col. 8, lines 41-42), entire cols.11-12). This would imply that there are means for determining difference (combining means) and means for determining said signals.

Claim Rejections - 35 USC § 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

Page 3

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

5. Claims 2-4 are finally rejected under 35 U.S.C. 103(a) as being unpatentable over Schawe et al (U.S. 6170984) [hereinafter Schawe] in view of Hutter et al. (U.S. 6318890) [hereinafter Hutter].

Schawe discloses a device/ method for determining a sample/ substance thermal property (phase transition), the device comprising a heat flow (to/ from the substance) determining (col. 5, line 57) and thus, providing a first measuring signal by measuring/ obtaining the heat flow, generating temperature signal phase shifted relative to the heat flow mad measuring/ obtaining said temperature (phase shifted), determining difference between the first signal and the temperature (phase shifted) signal and determining a phase transition temperature based on said difference/ comparison (col. 8, lines 41-42, entire cols.11-12). This would imply that there are means for determining said signals.

Schawe does not explicitly teach the limitations of claims 2-4.

Hutter discloses in Fig. 1 a device in the field of applicant's endeavor comprising two opposite surfaces 1 whose temperature varies (heating/ cooling from power source 28) and measuring a heat flow between the first surface and the sample and the second surface and the sample to determine a net flow. Since varying heat can be either heating or cooling (col. 2, line 21), the heat, inherently, flows to or from the sample. As shown in Fig. 1, the surfaces are located at a distance from the sample.

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the method, disclosed by Schawe, so as to vary

Art Unit: 2859

heating/ cooling as taught by Hutter, in order to obtain the change in the sample thermal behavior, and thus, determine a phase transition temperature, in order to identify the sample.

6. Claim 10 is finally rejected under 35 U.S.C. 103(a) as being unpatentable over Schawe in view of Sahm et al. (U.S. 6193697) [hereinafter Sahm]

Schawe discloses the device as stated above.

Schawe does not explicitly teach a combining element, as stated in claim 10.

Sahm discloses a device in the field of applicant's endeavor wherein Sahm teaches to determine difference between two output signals by using a differential amplifier (inherently, having negative and positive inputs).

Therefore, it would have been obvious to one of ordinary skills in the art at the time the invention was made to modify the device, disclosed by Schawe, so as to replace the combining element with a differential amplifier, as taught by Sahm, because both of them are alternate types of devices used for obtaining difference between signals and will perform the same function if one is replaced with the other.

Allowable Subject Matter

7. Claims 2-7 and 9 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Response to Arguments

8. Applicant's arguments filed on 07/26/2007 have been fully considered but they are not persuasive.

Art Unit: 2859

Applicant states that the device of Shawe is not directed to environmental testing, as the applicant's invention. This argument is not persuasive because this limitation is not stated in claims. It is the claims that define the claimed invention, and it is claims, not specification that are anticipated or unpatentable. Constant v. Advanced Micro-Devices, Inc., 7 USPQ2d 1064.

Applicant states that Shawe does not use two phase-shifted signals for testing the same sample. This argument is not persuasive because this limitation is not stated in claims. It is the claims that define the claimed invention, and it is claims, not specification that are anticipated or unpatentable. Constant v. Advanced Micro-Devices, Inc., 7 USPQ2d 1064.

With respect to Hutter: the arguments are persuasive. Claim 2 is now indicated as allowable (see above).

Conclusion

9. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

Application/Control Number: 10/526,974

Art Unit: 2859

the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Page 6

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The prior art cited in the PTO-892 and not mentioned above disclose related devices and methods.

Reading (U.S. 5346306) discloses a device/ method in the field of applicant's endeavor. Reading states that a kinetic parameter (i.e., phase transition) could derive from heat flow, temperature and phase shift (col. 4, lines 60-68).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Gail Verbitsky whose telephone number is 571/272-2253. The examiner can normally be reached on 7:30 to 4:00 ET.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Diego Gutierrez can be reached on 571/272-2245. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Olylers Business Center (EBC) at 866-217-9197 (toll-free).

GKV

Gail Verbitsky

Primary Patent Examiner, TC 2800